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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/977,966	10/17/2001	Liang-Kuang Diang	CHU 159	4309
7590 07/13/2004			EXAMINER	
RABIN & BERDO, P.C.			DEAK, LESLIE R	
Suite 500 1101 14th Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005			3762	

DATE MAILED: 07/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		12
	Application No.	Applicant(s)
	09/977,966	DIANG, LIANG-KUANG
Office Action Summary	Examiner	Art Unit
	Leslie R. Deak	3762
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a eply within the statutory minimum of th od will apply and will expire SIX (6) MO lute, cause the application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 22	April 2004.	
,—	his action is non-final.	
3) Since this application is in condition for allow		·
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 3 and 4 is/are pending in the applic	ation.	
4a) Of the above claim(s) is/are withd	rawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>3 and 4</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	I/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exami	ner.	
10)⊠ The drawing(s) filed on 17 October 2001 is/a	re: a)⊠ accepted or b)□	objected to by the Examiner.
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the corre	ection is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docume	ents have been received.	
2. Certified copies of the priority docume	ents have been received in .	Application No
Copies of the certified copies of the present the present the present the copies.	riority documents have bee	n received in this National Stage
application from the International Bure	eau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a li	ist of the certified copies no	t received.
Attachment(s)	——	
Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 		Informal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) 🗌 Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable 2. over US 5,484,397 to Twardowski in view of US 5,052,382 to Wainwright. Twardowski discloses an artificial kidney for dialysis that includes a dialysis solution circuit 94 with filters for purifying the solution, an extracorporeal blood circuit 101, and a mixing/heating circuit 32 for preparing the dialysis solution. Twardowski discloses an ozone generator that works to disinfect the system, but does not disclose that it is used for a fluid that treats the patient. However, Wainwright discloses a system and a method for generating ozone to treat a fluid used for treatment of a human body, which includes, by definition, diasylate. Wainwright further discloses a monitoring system that monitors the generation and application of the ozone. With regard to applicant's claims drawn to the function and concentration of the ozone, such a limitation amounts to a recitation of the intended use of the device, which does not patentably distinguish the structure of the claimed device from the prior art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to add the ozone treatment system disclosed by Wainwright to the dialysis system disclosed by

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Twardowski since ozone treatment of patients is well known in the art of blood treatment in order to act as an anti-viral and antibacterial agent, as taught by Wainwright.

Response to Arguments

Applicant's arguments filed 22 April 2004 have been fully considered but 3. they are not persuasive. Applicant argues that the applied art fails to disclose a replenishing solute circuit. However, Twardowski discloses a mixing/heating circuit that mixes solutions for initial application, as well as recirculating fluids in the dialysis fluid circuit. See column 9, lines 62-67. The circuit 32 includes inflow and outflow lines and bridging lines that allow for fluid communication between the diasylate circuit and the extracorporeal blood circuit. See column 10. Applicant further argues that the cited art does not disclose the application of ozone into blood vessels to kill microorganisms therein. As previously stated, such a claim limitation is a statement of the intended use of the apparatus, which does not constitute patentable limitations on the device itself. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See In re Casey, 152 USPQ 235 (CCPA 1967) and In re Otto, 136 USPQ 458, 459 (CCPA 1963). Such a claim limitation drawn to the

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method of operation of the apparatus is appropriately presented in a method claim.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie R. Deak whose telephone number is 703-305-0200. The examiner can normally be reached on M-F 7:30-5:00, every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lrd / / / 9 July 2004

PATRICIA BIANCO : PRIMARY EXAMINER